

# CMS Simulation (LHE) 13 TeV

Fraction of events / 1 GeV

$pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\gamma_D \rightarrow 2n_D + 4\mu$   
 $m_h = 125 \text{ GeV}, m_{n_1} = 10 \text{ GeV}, m_{n_D} = 1 \text{ GeV}$   
 $m_{\gamma_D} = 0.275 \text{ GeV}, c\tau_{\gamma_D} = 0.5 \text{ mm}$

0.04

0.03

0.02

0.01

0

20

40

60

80

100

120

Mass of Fake  $\mu\mu$  [GeV]

